





PAGER Version 5

10,000

100,000

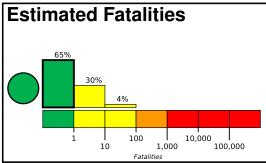
1,000

Created: 6 hours, 5 minutes after earthquake

100

M 4.5, 31km SE of Markleeville, CA

Origin Time: 2021-07-09 01:46:00 UTC (Thu 18:46:00 local) Location: 38.5137° N 119.5260° W Depth: 8.3 km



Green alert for shaking-related fatalities Estimated Economic Losses and economic losses. There is a low likeli-



hood of casualties and damage.



ESTIMATED POPULATION EXPOSURE (k=x1000)		1,472k*	5,109k	1k	0	0	0	0	0	0
ESTIMATED MODIFIED MERCALLI INTENSITY		I	11-111	IV	V	VI	VII	VIII	IX	X+
PERCEIVE	SHAKING	Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
POTENTIAL DAMAGE	Resistant Structures	None	None	None	V. Light	Light	Moderate	Mod./Heavy	Heavy	V. Heavy
	Vulnerable Structures	None	None	None	Light	Moderate	Mod./Heavy	Heavy	V. Heavy	V. Heavy

^{*}Estimated exposure only includes population within the map area.

Population Exposure

population per 1 sq. km from Landscan

Structures

65%

30%

Overall, the population in this region resides in structures that are resistant to earthquake shaking, though vulnerable structures exist. The predominant vulnerable building types are unreinforced brick masonry and reinforced masonry construction.

Historical Earthquakes

Date	Dist.	Mag.	Max	Shaking
(UTC)	(km)		MMI(#)	Deaths
2003-12-22	349	6.6	VI(8k)	2
1980-01-24	212	5.8	VII(35k)	1
1989-10-18	251	6.9	VIII(109k)	62

Recent earthquakes in this area have caused secondary hazards such as landslides and liquefaction that might have contributed to losses.

Selected City Exposure

from GeoNames.org **MMI** City Population Ш **Bridgeport** Ш Cedar Ridge Ш **Smith Valley** Ш Smith Ш Twain Harte Ш **Tuolumne City** Ш Sacramento Ш **Carson City** Ш Stockton Ш Reno

Fresno bold cities appear on map.

(k = x1000)

1k

1k

2k

1k

2k

2k

466k

55k

292k

225k

495k

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PAGER content is automatically generated, and only considers losses due to structural damage. Limitations of input data, shaking estimates, and loss models may add uncertainty.